



## Catalysing sustainable water security: Role of science, innovation and partnerships

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### Abstract:

Water security is vital for people, livelihoods, agriculture, energy and cities from the local to the global levels. This is an increasingly complex and dynamic challenge with a growing global population, a changing and more volatile climate, increasing urbanization and diminishing supplies of water from aquifers. One of the most significant effects of climate change is on the hydrological cycle, and over the past decades the vulnerability of water resource systems to climate fluctuations is becoming even more apparent, and the influence on economic growth is of growing interest. Likewise, despite the global response to reducing by half the proportion of people without improved water services between 1990 and 2010, over 780 million people worldwide still do not have access to safe and reliable water supplies. The future challenge is how to achieve universal access in the face of a growing population and increasing urbanization.

**Source:** <http://dx.doi.org/10.1098/rsta.2012.0414>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Food/Water Security, Food/Water Security

**Food/Water Security:** Agricultural Productivity

#### Geographic Feature:

resource focuses on specific type of geography

Freshwater

#### Geographic Location:

resource focuses on specific location

Non-United States

**Non-United States:** Europe

**European Region/Country:** European Region, European Country

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**Other European Region:** European Union

**Other European Country :** United Kingdom

**Health Impact:** ☒

specification of health effect or disease related to climate change exposure

Health Outcome Unspecified

**Mitigation/Adaptation:** ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

**Resource Type:** ☒

format or standard characteristic of resource

Policy/Opinion

**Resilience:** ☒

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

**Timescale:** ☒

time period studied

Time Scale Unspecified